Tubercle and Lung Disease

CONTENTS TO VOLUME 78 1997

Editorial 1
P. Brennan, J. J. Ellner, B. Bloom, A. Ginsberg

Original articles
***Mycobacterium tuberculosis sigF* is part of a gene cluster with similarities to the *Bacillus subtilis sigF* and *sigB* operons** 3
J. DeMaio, Y. Zhang, C. Ko, W. R. Bishai

A novel repeat sequence specific to *Mycobacterium tuberculosis* complex and its implications 13
T. Y. Lee, T. J. Lee, J. T. Belisle, P. J. Brennan, S. K. Kim

Serological diagnosis of childhood tuberculosis by estimation of mycobacterial antigen 60-specific immunoglobulins in the serum 21
S. Gupta, R. Bhatia, K. K. Datta

Differential diagnosis of tuberculous pleurisy by measurement of cytokine concentrations in pleural effusion 29
K. Ogawa, H. Koga, Y. Hirakata, K. Tomono, T. Tashiro, S. Kohno

Evidence that genetic susceptibility to *Mycobacterium tuberculosis* in a Brazilian population is under oligogenic control: linkage study of the candidate genes NRAMP1 and TNFA 35
M. A. Shaw, A. Collins, C. S. Peacock, E. N. Miller, G. F. Black, D. Sibthorpe, Z. Lins-Lainson, J. J. Shaw, F. Ramos, F. Sliveira, J. M. Blackwell

Effect of cytokine modulation by thalidomide on the granulomatous response in murine tuberculosis 47
A. L. Moreira, L. Tsenova-Berkova, J. Wang, P. Laochumroonvorapong, S. Freeman, V. H. Freedman, G. Kaplan

Progression of chronic pulmonary tuberculosis in mice aerogenically infected with virulent *Mycobacterium tuberculosis* 57
E. R. Rhoades, A. A. Frank, I. M. Orme

Expression of memory immunity in the lung following re-exposure to *Mycobacterium tuberculosis* 67
A. M. Cooper, J. E. Callahan, I. M. Orme

Tuberculosis abstracts
Abstracts from the 32nd US-Japan Conference on Tuberculosis and Leprosy, Cleveland, Ohio, USA, July 1997 75

Correspondence 85

Directory 87

Review
Molecular action of anti-mycobacterial agents 89
I. Chopra, P. Brennan

Original articles
Tuberculosis research in a cold climate 99
F. M. Collins

Differences in the prevalence of IS*6110* insertion sites in *Mycobacterium tuberculosis* strains: low and high copy number of IS*6110* 109
N. Fomukong, M. Beggs, H. El Hajj, G. Templeton, K. Eisenach, M. D. Cave

Mutation in *pncA* is a major mechanism of pyrazinamide resistance in *Mycobacterium tuberculosis* 117
K. Hirano, M. Takahashi, Y. Kazumi, Y. Fukasawa, C. Abe

Biosynthetic origin of mycobacterial cell wall galactofuranosyl residues 123
A. Weston, R. J. Stern, R. E. Lee, P. M. Nassau, D. Monsey, S. L. Martin, M. S. Scherman, G. S. Besra, K. Duncan, M. R. McNeil

Immunological screening of a genomic *M. bovis* BCG library expressed in *M. smegmatis* and identification of the *M. bovis* BCG analog of ClpB 133
M. Bona, R. Nayak, M. Wu, M. Mincek, J. J. Ellner

Directory 143

Review
Examining a paradox in the pathogenesis of human pulmonary tuberculosis: immune activation and suppression/anergy 145
G. Vanham, Z. Toossi, C. S. Hirsch, R. S. Wallis, S. K. Schwander, E. A. Rich, J. J. Ellner

Conference report
Tuberculosis vaccines: how close to human testing? 159
G. G. Jacobs, J. L. Johnson, W. H. Boom, R. S. Wallis, C. C. Whalen, A. M. Ginsberg

Meeting report
Genetics and Tuberculosis, Cape Town, South Africa, 21 November 1997 171
V. Mizrahi

Original articles
Sigma factors of *Mycobacterium tuberculosis* 175
J. E. Gomez, J-M. Chen, W. R. Bishai

Cellular and humoral immune responses to mycobacterial stress proteins in experimental pulmonary tuberculosis 185
R. A. Bartow, D. N. McMurray

rhuIL-2 adjunctive therapy in multidrug resistant tuberculosis: a comparison of two treatment regimens and placebo 195
B. J. Johnson, L-G. Bekker, R. Rickman, S. Brown, M. Lesser, S. Ress, P. Willcox, L. Steyn, G. Kaplan

Tuberculosis abstract
Abstract from the 32nd US-Japan Conference on Tuberculosis and Leprosy, Cleveland, Ohio, USA, July 1997 205
D. Williams, C. Limbers, L. Spring, T. Gillis, B. Simon, L. Heifets

Directory 207

Editorial 209
P. J. Brennan, J. J. Ellner

Review
Mycobacterial promoters 211
M. A. Mulder, H. Zappe, L. M. Steyn

Short communication
Conservation of IS*6110* sequence in strains of *Mycobacterium tuberculosis* with single and multiple copies 225
J. W. Dale, T. H. Tang, S. Wall, Z. F. Zainuddin, B. Plikaytis

Original articles

Production of avirulent *Mycobacterium bovis* strains by illegitimate recombination with deoxyribonucleic acid fragments containing an interrupted *aphC* gene 229
T. Wilson, B. J. Wards, S. J. White, B. Skou, G. W. de Lisle, D. M. Collins

Comparison of the roles of reactive oxygen and nitrogen intermediates in the host response to *Mycobacterium tuberculosis* using transgenic mice 237
L. B. Adams, M. C. Dinauer, D. E. Morgenstern, J. L. Krahenbuhl

***Mycobacterium tuberculosis* (MTB)-stimulated production of nitric oxide by human alveolar macrophages and relationship of nitric oxide production to growth inhibition of MTB 247**
E. A. Rich, M. Torres, E. Sada, C. K. Finegan, B. D. Hamilton, Z. Toossi

***Mycobacterium tuberculosis* aerogenic rechallenge infections in B cell-deficient mice 257**
C. M. Johnson, A. M. Cooper, A. A. Frank, C. B. C. Bonorino, L. J. Wysoki, I. M. Orme

Directory 263